



# Nick's Class

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- Set of decision problems decidable in polylogarithmic time on a parallel computer with a polynomial number of processors.
  - $n$  size of the problem, find constants  $k$  and  $c$  such that the problem is solved in time  $O((\log n)^c)$  using  $O(n^k)$  processors.



# Interesting Facts

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- P tractable problems  $\leftrightarrow$  NC efficiently solved on parallel computers.
- NC subset of P, believed to be strict.
  - It is believed that there are tractable problems inherently sequential
  - like it is believed that NP is intractable.
- NC independent of the PRAM model.